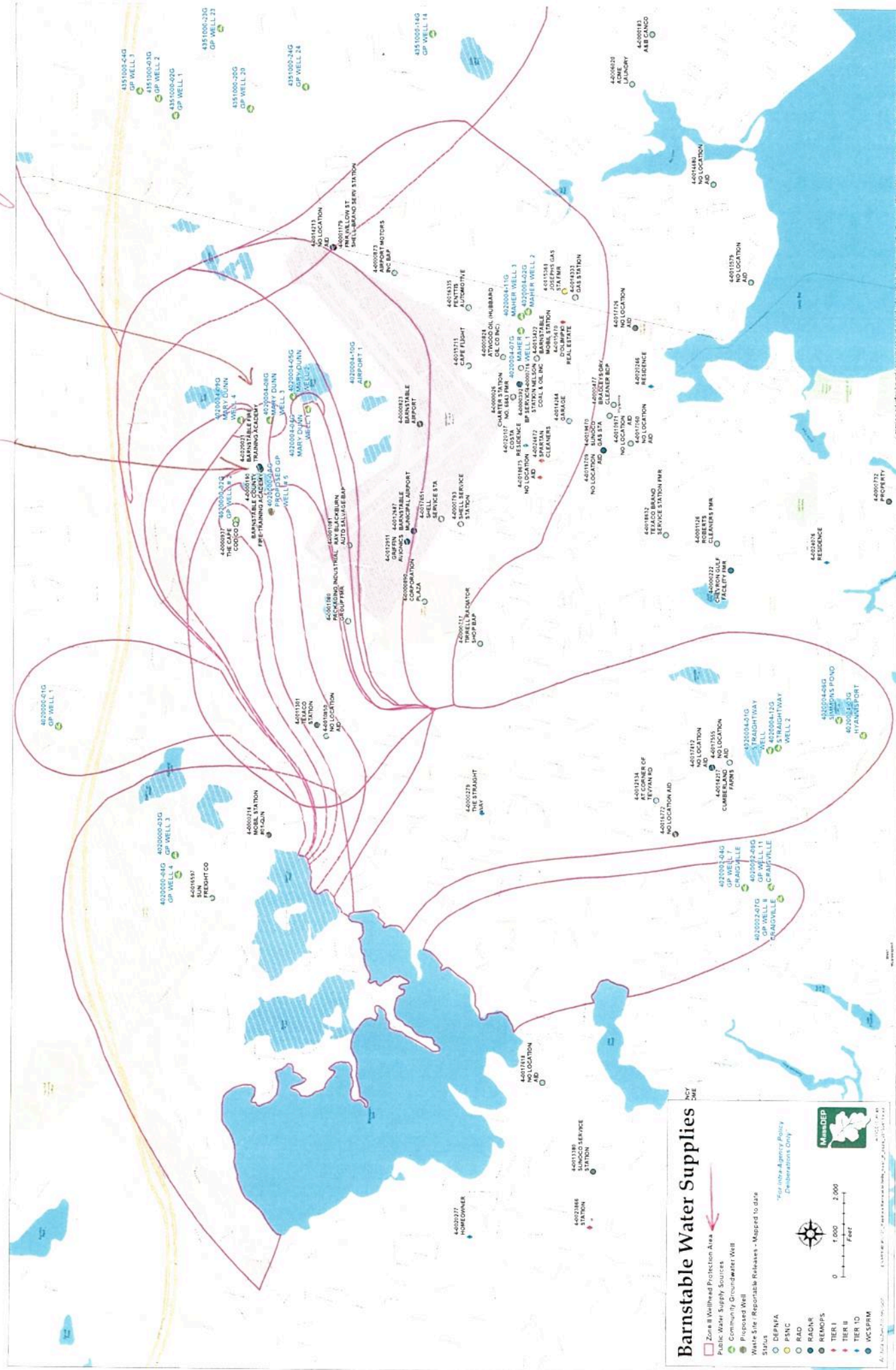


Fire Mary Dunn's



### Barnstable Water Supplies

Zone B Wellhead Protection Area

Public Water Supply Sources

- Community Groundwater Well
- Proposed Well
- Water Site Reportable Releases - Mapped to date

Status

- DEFNSA
- PNC
- RAD
- RADNR
- REMPS
- TIER I
- TIER II
- TIER III
- WCSRM

MapScale

0 1000 2000 Feet

North Arrow

MapScale

0 1000 2000 Feet

MapScale

0 1000 2000 Feet

## Reilly, Kevin

---

**From:** Downing, Jane  
**Sent:** Wednesday, May 13, 2015 4:37 PM  
**To:** Reilly, Kevin; Belaval, Marcel  
**Cc:** McClelland, Maureen  
**Subject:** FW: barnstable water supply wells

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

-----Original Message-----

**From:** Lim, Robert  
**Sent:** Wednesday, May 13, 2015 4:36 PM  
**To:** Jennings, Lynne; Murphy, Jim; Daly, Michael; Sanderson, Mary; Downing, Jane; Walsh-Rogalski, William; Melanson, Kate  
**Subject:** FW: barnstable water supply wells

FYI. Apparently Barnstable County's public wells were shut down yesterday over PFOS from a town fire training area.

-----Original Message-----

**From:** FORBES, ROSE H GS-13 USAF HAF AFCEC/CZO [mailto:rose.forbes@us.af.mil]  
**Sent:** Wednesday, May 13, 2015 4:24 PM  
**To:** Lim, Robert; Pinaud, Leonard (DEP)  
**Subject:** barnstable water supply wells

[http://www.barnstablepatriot.com/home2/index.php?option=com\\_content&task=view&id=39027&Itemid=152](http://www.barnstablepatriot.com/home2/index.php?option=com_content&task=view&id=39027&Itemid=152)

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## HYANNIS

## Barnstable declares water emergency to avert summer shortage

Barnstable implements rarely used charter provision to secure funds and avert summer shortage



COMMENT

1

20

By Geoff Spillane

gspillane@capecodonline.com

Posted May. 11, 2015 at 8:27 PM

HYANNIS — Two of four wells supplying water to Hyannis, Hyannisport and West Hyannisport have been closed because of the presence of a contaminant at levels that exceed a federal health advisory.

The shutdown has raised fears among local officials that the town may not be able to meet the water demand of the area's summer population, prompting an emergency declaration to secure funds to clean the wells by June 30.

Barnstable Department of Public Works Director Daniel Santos maintains the water supply is safe, but the contamination of perfluorinated compounds, or PFCs, caused the Barnstable Town Council to take the extraordinary step of triggering a rarely used provision in the town charter to declare an emergency. The declaration, which was unanimously approved by the council Thursday night, allowed it to approve an immediate allocation of \$744,000 to buy and install two carbon treatment units for the Mary Dunn well field.

"The emergency provision measure in the charter is not used lightly. I have been here for 18 years and this is the first time I can recall it being used," Barnstable finance director Mark Milne said. The emergency measure allows the public works department to bypass the nearly two-month period, including a public hearing, normally required to get funding formally approved, Milne said.

Prior to the council vote, Santos read an emergency preamble into the official record.

"The Mary Dunn wells are vital to the Hyannis Water System to be able to meet the drinking water and fireflow demands of residential and commercial customers in Hyannis, Hyannisport and West Hyannisport, including Cape Cod Hospital," he said. "With the Mary Dunn wells off-line, there is a strong possibility that we will not be able to meet the peak water demands of the summer season."

In a memorandum to the council, Barnstable Town Manager Thomas Lynch identified the source of the PFCs in the water supply as the Barnstable County Fire Training Academy, where firefighting foams containing PFCs have been historically used in training exercises. He also wrote that it is anticipated that funds used to address contamination at the wells will be reimbursed to the town by the training academy.

Technical professionals from the Cape Cod Commission are leading a site assessment and clean-up project for the county. As of press time, voicemail messages had been exchanged with Tom Cambareri, the commission's watershed management director, but efforts to speak with him were unsuccessful.

Santos said Monday the carbon treatment units will be ordered today and that delivery is expected to take up to four weeks, with the goal of having the units fully operational by June 30.

Laurel Schaidler, a research scientist at Silent Spring Institute, an environmental research organization founded in 1994 to investigate elevated breast cancer rates on the Cape, said the type of chemicals detected in the two wells are found in firefighting foam and everyday household products. She said that when data compiled during an institute research project on the Cape in



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2010 was inserted into nationwide monitoring data, the two wells closed in Hyannis were among the top 1 percent of PFC-contaminated samples in the country.

The understanding of health issues associated with PFCs is evolving, but high levels of the compound have been linked to cancer and hormone disruption in humans, and mammary tumors and changes in liver development in animals, according to Schaidler.

There are no state or federal regulations for PFCs, but the U.S. Environmental Protection Agency has designated them "contaminants of emerging concern," requiring water districts to test for them, said Edmund Coletta, a spokesman for the Massachusetts Department of Environmental Protection. Adverse health effects from these chemicals in the Hyannis water system are not very likely since they have only been detected in the supply in small amounts, but within the health advisory limits, since 2014, Coletta said.

"When they assess potential harm to humans of these chemicals they look at consumption over a lifetime period, or 70 years," Coletta said.

In March, town officials found the levels of the chemicals in the two wells were above the health advisory guidelines, according to Santos.

Despite this, Hyannis residents should feel safe, Coletta said.

"The water board jumped right on it," he said, adding that tap water is derived from a combination of wells, so the levels of contamination in the two closed wells would not be reflected in the water coming out of faucets.

Coletta said Department of Environmental Protection officials will attend today's Hyannis Water Board meeting to discuss the issue. The meeting is at 3:15 p.m. in the growth management conference room at Barnstable Town Hall.

"We want people to be safe. That's our first and foremost goal," Santos said. "We've been working with the DEP and they are supportive of these actions."

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**Eric Schwaab**

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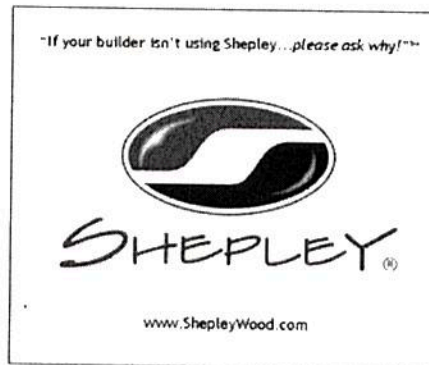




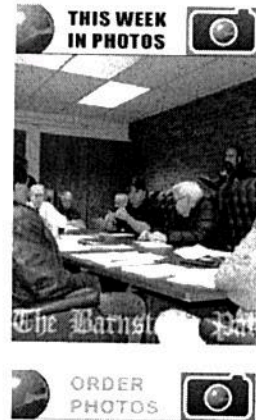
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## Barnstable OKs \$744,000 emergency filter fix for contaminated wells

Written by Noah Hoffenberg

The Barnstable Town Council voted unanimously Thursday night to pay up to \$744,000 for an emergency filtration system for the Mary Dunn wellfield, which was recently contaminated by chemicals believed to have leached from the county fire academy.

Perfluorooctane sulfonate -- a chemical in fire retardant foams -- has contaminated two of the four Mary Dunn wells, according to town officials.

The chemical is considered by the federal Environmental Protection Agency to be a "contaminant of emerging concern." Water from two of the wells tested positive for the chemical at 2 parts per million, which is the EPA's recommended threshold.

The contamination presently poses no threat to human health. The EPA says toxicological studies on animals, however, indicate potential developmental, reproductive and systemic effects from perfluorooctane sulfonate.

The town stopped drawing water from the wellfield in April, and water won't flow from there until the problem is fixed.

The county government is the operator of the Barnstable County's Fire and Rescue Training Academy. On Wednesday, Barnstable County Commissioner Sheila Lyons said she wants to hire a special counsel experienced with "environmental law and liability."

While there have been no commitments from the county to pay for the cleanup, Department of Public Works Director Daniel Santos said, if a source of the chemical is confirmed, the town would seek reimbursement for expenses.

Town Council Vice President Ann Canedy expressed concern that blame for the presence of the chemical was coming too soon.

"I think it's really important to take away from this that the water supply is safe and that the town is being very proactive in taking the actions it's done to ensure there's adequate water supply," she said. "Any assignment of accusation or blame or insinuation is premature. It's beyond the focus that we have tonight."

Precinct 5 Councilor James Crocker concurred, suggesting that other sources, such as the nearby Barnstable Municipal Airport, could be the starting point.

The water from the Mary Dunn wells, which serve residential and commercial customers in Hyannis, Hyannisport and West Hyannisport, will be needed come tourist time this summer, said Santos.

"With the Mary Dunn wells off-line, there is a strong possibility that we will not be able to meet the peak water demands of the summer season," Town Manager Thomas Lynch wrote in his sponsoring measure for the \$744,000 appropriation.

Councilors asked Santos if all options for other water sources had been explored, such as linking up with a neighboring water district from another village or town.

"We've looked at all possible water connections. The most viable one is connecting with Yarmouth, and we've started discussions with them to get water from there if necessary. We have exhausted all of those other opportunities," said Santos.

He said waiting was not an option, considering that peak season is around the corner.

The suggested fix will be two portable granular activated carbon treatment filters to be deployed at the well site.

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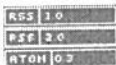
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## Reilly, Kevin

---

**From:** Downing, Jane  
**Sent:** Friday, May 08, 2015 3:41 PM  
**To:** Reilly, Kevin  
**Cc:** Belaval, Marcel; McClelland, Maureen; Ryan, Chris; Daly, Michael; Jennings, Lynne; Walsh-Rogalski, William; Sanderson, Mary  
**Subject:** FW: PFOA, PFOS

Hi Kevin

As we think through what EPA may do for Portsmouth NH – wanted to get a read on where else PFCs have shown up in PWSS in NE, via UCMR. NH

See summary from Chris Ryan.

Now – in the past we spoke about Hyannis and Mary Dunn Wells – Let me know what the latest is and DEP's plans BMA

ME reacted to Sanford hits, and we know the well is off line. By the way, Chris identified that Sanford well is near an airport and other places of contamination.

On Portsmouth UCMR data – no PFCs detected but chromium and strontium – Chris is getting numbers

More to Come  
Jane

---

**From:** Ryan, Chris  
**Sent:** Friday, May 08, 2015 3:09 PM  
**To:** Downing, Jane  
**Subject:** RE: PFOA, PFOS

Jane –

Here is the info you requested. One correction to what I sent you before. The MRL for PFOS is actually 0.04 µg/l, not 0.02. I guess I was typing too fast and mixed up the numbers.

Anyway, here are the PWSs in Region 1 with detects:

### PFOA

Massachusetts MA

Danvers	11/19/13	Well 1 Treatment Facility	0.025 µg/l
	5/21/14	Well 1 Treatment Facility	0.022 µg/l
Hyannis	11/20/13	Mary Dunn Well 2	0.02 µg/l
	5/22/14	Mary Dunn Well 2	0.062 µg/l
	5/22/14	Mary Dunn Well 3	0.02 µg/l
	5/22/14	Maher Treatment Plant	0.02 µg/l
Westfield	2/27/13	Well 7	0.043 µg/l



## New Hampshire

NH

Dover 3/24/14 Griffin Treatment Plant 0.067 µg/l

Merrimack Village 4/14/14 Pump Station 5 0.042 µg/l

## Rhode Island

RI

Cumberland 2/18/15 Abbot Run #1 0.081 µg/l

The national range of detects for PFOA was 0.02 µg/l to 0.349 µg/l (the 6 highest samples were in PA and DE).

## PFOS

### Massachusetts

MA

Hyannis	11/20/13	Mary Dunn Well 1	0.19 µg/l
	5/22/14	Mary Dunn Well 1	0.098 µg/l
	11/20/13	Mary Dunn Well 2	0.17 µg/l
	5/22/14	Mary Dunn Well 2	0.43 µg/l
	11/20/13	Mary Dunn Well 3	0.11 µg/l
	5/22/14	Mary Dunn Well 3	0.21 µg/l
	11/20/13	Maher Treatment Plant	0.06 µg/l
	5/22/14	Maher Treatment Plant	0.086 µg/l

Westfield	2/27/13	Well # 7	0.16 µg/l
	8/19/13	Well # 7	0.12 µg/l

### Maine

ME

Kennebunk, Kennebunkport, Wells 11/25/14 2 wells 0.05 µg/l

Sanford	4/19/13	Eagle Drive #1	0.29 µg/l
	8/17/13	Eagle Drive # 1	0.25 µg/l

## New Hampshire

NH

Dover 3/24/14 Griffin Treatment Plant 0.12 µg/l

(the numbers in red above are > the ref. conc.)



The national range for detects of PFOS was 0.04 µg/l to 1.8 µg/l (6 out of the highest 7 sample results were again in PA and DE. The high sample in Hyannis, MA was the 15th highest in the country).

Chris

*Chris Ryan  
Environmental Scientist  
Drinking Water Quality and Protection Unit  
Drinking Water Branch - OEP 6-3  
USEPA New England – Region 1  
5 Post Office Square - Suite 100  
Boston, MA 02109-3912  
email: [ryan.chris@epa.gov](mailto:ryan.chris@epa.gov)  
phone: 617 918-1567  
fax: 617 918-0567*

---

**From:** Downing, Jane  
**Sent:** Friday, May 08, 2015 1:39 PM  
**To:** Ryan, Chris  
**Subject:** RE: PFOA, PFOS

Thanks Chris

May I have the names, locations and detects of the NE systems for PFOA and PFOS.

Also – what are the ranges of detects nationally – want to get a sense of how NE matches up

Thanks again  
Jane

---

**From:** Ryan, Chris  
**Sent:** Friday, May 08, 2015 1:26 PM  
**To:** Downing, Jane  
**Subject:** PFOA, PFOS

Jane –

I got the following info from SDWARS, and the January NPOD release.

### PFOA occurrence in Region 1

Minimum Recoverable Level (MRL)=0.02 µg/l Reference concentration=0.4 µg/l

10 samples found > the MRL - range of samples - 0.02 µg/l to 0.081 µg/l  
0 samples > ref. conc.

3 PWSs in MA

2 PWSs in NH

1 PWS in RI

6 PWSs with samples > MRL

### PFOS occurrence in Region 1

MRL=0.02 µg/l      Reference concentration=0.2 µg/l

14 samples found with levels > the MRL - range of samples – 0.05 µg/l to 0.43 µg/l

2 PWSs in MA

2 PWSs in ME

1 PWS in NH

5 PWSs with samples > MRL

4 samples > ref. conc. (1 PWS in MA, and 1 PWS in ME)

Nationally, there have been 3,604 PWSs sampled for PFOA, and 3,605 PWSs sampled for PFOS.

**PFOA**      72 PWSs (with 220 samples) > the MRL, and 0 PWSs (with 0 samples) > the ref. conc.

**PFOS**      68 PWSs (with 185 samples) > the MRL, and 12 PWSs (with 24 samples) > the ref. conc.

If you need specific information about the PWSs in NE, I have all that info too. (PWS names, sample results and sample locations.)

Chris

*Chris Ryan  
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